

Prof. Adnan Hasan Nayfeh

Emeritus Professor of Engineering, University of Cincinnati, USA
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Summary Statement

Adnan Nayfeh is an emeritus Professor of Engineering from the University of Cincinnati and a consultant for Quality and Accreditation of Higher Education Programs. He is now a special advisor for the Vice President for Development at King Abdulaziz University for quality, accreditations and rankings. Under his guidance all programs of the Faculty of Computer and Information Technology Programs at KAU have just received their ABET Accreditation, July 2013. In the meantime, he is also advising the College of Engineering at KAU in preparing for their upcoming ABET revisit in 2014. Until quite recently he was a special advisor for the President of King Saud University responsible for ABET accreditation efforts and also for reforming graduate education and research. Under his guidance, in August, 2010, all programs in the College of Engineering received full ABET accreditation and in October 2011 all programs of the College of Computer and Information Sciences as well as the biomedical program received the same full ABET accreditation. During the period 2006-2010 he was the President of Zarqa University, Jordan. Prior to that, he was the Vice president for Academic Affairs at the Al-Isra University in Jordan. He came to this position after being the Dean of the College of Engineering and Professor of Mechanical Engineering at Qatar University since January 2003. While at Qatar University, he was actively helping the College and the University in establishing quality control systems and was instrumental in obtaining the ABET accreditation for the College of Engineering. While on leave from the University of Cincinnati, and prior to his University of Qatar appointment, he was visiting the Hashemite University in Jordan for two years during which he held the positions of Vice President of Academic Affairs and also a Sameer Shamma Distinguished Chair. During the period 1981-1984 he also was a visiting professor at Yarmouk University in Jordan and held the administrative positions of Dean of Sciences and also Dean of Graduate Education and Research. He received his PhD from the University of California in San Diego in 1971. Professor Nayfeh has an extensive academic record of teaching, research and administrative positions in higher education. All of his research has been supported by both governmental and private sectors and resulted in close to two hundred publications and presentations. He has graduated over twenty doctoral students and over fifty MS students. Several of his graduating students hold key faculty and industrial positions world-wide. He also received several teaching and research awards. Professor Nayfeh has conducted research and consulting for several key US governmental and private institutions such as NASA, National Science Foundation (NSF), General Electric, Johnson and Johnson and others. His recent activities in the Middle East include many lectures, workshops, committee works and consultations on Quality Assurance and Accreditation (especially ABET) and international university rankings.

Former Administrative Positions:

- Special advisor to King Abdulaziz University Vice-Rector for Development 2012-present
- Special advisor to King Saud Rector 2008-2012
- President, Zarqa Private University, Jordan 2006-2012
- Member, Higher Education Council, Jordan 2006-2007
- Vice President of Academic Affairs, Al-Isra University, Jordan, October 2005-August 2006
- Dean of Engineering, University of Qatar, January 2003-September 2005
- Sameer Shamma Chair Professor and Vice President for Academic Affairs at Hashemite University, Jordan September 2001-September 2003
- Schneider Chair Professor of Engineering at the University of Cincinnati, 1990- present.

Some Recent Selective Talks on Quality, Accreditation and Rankings:

1. Nayfeh, A. H. “New Trends in Quality Higher Education”, Petra University, May 2014
2. Nayfeh, A. H. “Developing Trends Towards Quality Higher Education” QS Dubai meeting, May 2014
3. Nayfeh, A. H. “Quality Accreditation and Ranking” King Abdulaziz University, Jeddah, September 2013
4. Nayfeh, A. H. “ABET-Abu Ghazali Workshop” October 2012
5. Nayfeh, A. H. “ABET Accreditation Process, How to Qualify for ABET Accreditation” Bahrain, April 2012
6. Nayfeh, A. H. “Academia-Private Sector Collaborations, Palestine Expotech” April 2012
7. Nayfeh, A. H. “Quality Education and its Influence on Accreditation and Ranking”, Amman Higher Education University, June 6, 2009

8. Nayfeh, A. H. "The Role of Scientific Research on National Aspiration", Abu Ghazali Foundation, Amman, June 3, 2009
9. Nayfeh, A. H. "Quality Education and its Influence on Accreditation and Ranking, Shoman Foundation, Amman, May 4, 2009
10. Nayfeh, A. H. "Improvement of Faculty Member's Abilities to Meet Accreditation Requirement", Workshop on Academic Program Reforms, King Saud University, Riyadh, Saudi Arabia, January 31- February 1, 2009
11. Nayfeh, A. H. "Improvement of Curricula to Meet Accreditation Requirement, Workshop on Academic Program Reforms", King Saud University, Riyadh, Saudi Arabia, January 31- February 1, 2009
12. Nayfeh, A. H. "International Practices in the Improvement of Academic Programs to Meet Accreditation Requirement", Workshop on Academic Program Reforms, King Saud University, Riyadh, Saudi Arabia, January 31- February 1, 2009
13. Nayfeh, A. H. "International Practices in Quality and Accreditation", Association of Arab Universities Meeting, Amman, 23-24 November, 2008
14. Nayfeh, A. H. "Quality Education and its Influence on Accreditation and Ranking", Workshop on Quality and Ranking, King Saud University, Riyadh, 1-2 June, 2008
15. Nayfeh, A. H. "International Experiences on Accreditation", Meeting of Arab Association of Engineering Societies, Damascus, Syria, March 5-6, 2007.
16. Nayfeh, A. H. " ABET Substantial Equivalency" MUTA University, Karak, Jordan April 29, 2007
17. Nayfeh, A. H. " ABET Substantial Equivalency" Applied Science University, Amman, May 7, 2007
18. Nayfeh, A. H. "Applying ABET to Engineering Programs in Jordan", 6th Conference of Jordan Society for Quality, the Dead Sea, 2-4 December, 2007.

19. Nayfeh, A. H. "Globalization and the Need for Quality Engineering Education", Shoman Foundation, Amman, 13 June, 2006
20. Nayfeh, A. H. "Qatar University College of Engineering Preparation for ABET Substantial Equivalency", Doha, 20 February, 2005
21. Nayfeh, A. H. "Globalization and the Need for Educational Reform", First Jordanian Conference on accreditation and Quality Assurance, Amman, Jordan, December 13-15, 2005.
22. Nayfeh, A.H. "Science and Technology in the Contemporary World", Amman Industrial Hall, October 20-21, 2001.
23. Nayfeh, A. H. "Scientific Research and the Possibility of Benefiting from it", Shoman Foundation, October 6, 2001.

Academic Degrees: Ph.D., Aerospace and Mechanical Engineering, University of California, San Diego, 1971

MS, Univ. of Minnesota, 1967

BS, San Francisco State University, 1965

Fields of Interest: Mechanical, Civil, Aerospace Engineering Applied Mechanics and physics.

Research Fields: Nondestructive Evaluation, Quality Control Composites, Large Space Structures, Geothermal Energy, Ultrasonics and Wave Propagation.

Also Quality Assurance of Higher Education and Education Reforms and Accreditation Processes

Professional Experience:

Academic:

1- University of Qatar, Dean of Engineering and Professor of Mechanical Engineering, January 2003- September 2005.

2- The Hashemite University of Jordan, Vice President of Academic Affairs, September 2002-September 2003.

3- The Hashemite University of Jordan, Sameer Shamma Chair Professor of Physics, September 2001- September 2002.

4- Univ. of Cin., Professor, 9/78 - present.

5- Univ. of Cin., Assoc. Prof., 12/75-9/1/78.

6- Yarmouk Univ., Irbid, Jordan.

a. Professor, Mechanical Engineering, 1/81-6/85

b. Dean, Grad. Ed. and Research, " 9/83-9/84

c. Dean, College of Science, 9/84-9/85

7- Univ. of Paris, Visiting professor, 6/90 and 7/91

Industrial:

Systems Science and Software, LaJolla, Calif.
Research Scientist, 3/71-12/74

Scientific and

Professional Societies: AIAA, SES, ASA, AST A

Honors:

Distinguished Professor (Sameer Shamma Chair at Hashemite University)

Distinguished Chair (Schneider Professor at the University of Cincinnati)

College of Engineering Research Award.

NASA Recognition Award.

Yarmouk University Teaching and Research Awards.

Consulting:

Systems, Science and Software, LaJolla, California 1974.

University of California at San Diego, 1975.

Wright Patterson Air Force, 1977- 2005,

Systems Research Laboratories 8/78-9/83.

University of Dayton Research Institute 9/83-6/85.

Systran Corporation 6/85-4/20/90

Drexel University 9/86-9/1992.

General Electric 4/89-2003.

Trans Sci. Corp., LaJolla, Calif. 1993 – 1996.

Publications:

Books:

A. H. Nayfeh, *"Wave Propagation in Layered Anisotropic Media with Application to Composites"*, Elsevier Publishing Company, Applied Mathematics and Mechanics Series, Amsterdam, October, 1995.

Journal Papers:

1. Balawi, S., and Nayfeh, A. H., "Effective mechanical properties of triangular and hexagonal cellular composites", Composites B. Journal, January 2004.
2. Nayfeh A. H., Faidi W., "The thermoelectric magnetic field of isotropic inclusions in anisotropic metals", European Physical Journal-Applied Physics, November 2003.
3. Nayfeh A. H., Faidi W. and Jaghoub, M., "The role of anisotropy in the thermoelectric detection of holes in metals", European Physical Journal-Applied Physics, 22, 103-109, 2003.
4. Carreon, H, Lakshminarayan, B., Faidi, W., Nayfeh, A. H, and Nagy, P.B. "On the role of material property gradients in non-contacting thermoelectric NDE", NDT & E int. 36, 339-348, 2003.
5. Nayfeh, A.H. and Abdelrahman W. "Vibration Characteristics of Fibrous Composites with Damage", Journal of Vibration and Control 9, 709-729, 2003.
6. Nayfeh, A, H Carreon, H, Nagy, P.B. "On the role of anisotropy in non-contacting thermoelectric materials characterization". Journal of Applied Physics, 91, 225-231, 2002.
7. Nayfeh, A. H. and Jaghoub, M. "Thermoelectrically induced magnetic fields in laminated composite materials" European Physical Journal-Applied Physics, 18, 79-87, 2002.

8. Nayfeh A. H., Faidi W., "Thermoelectrically induced magnetic field of elliptical cylindrical and spheroidal inclusions", *European Physical Journal-Applied Physics*, 19, 153-164,2002.
9. Carreon, H, Nagy, P.B, Nayfeh, A. H. "Thermoelectric detection of spherical tin inclusions in copper by magnetic sensing". *Journal of Applied Physics*, Volume 88, No. 11, December 2000.
- 10.Nayfeh, A.H, Abdelrahman, W.G, Nagy, P.B. "Analysis of axisymmetric waves in layered piezoelectric rods and their composites". *J. Acoust. Soc. Am.* 108 (4), October 2000.
- 11.Nayfeh, A.H., Abdelrahman W. and, Nagy, P.B., "General Study of Axisymmetric Waves in Layered Anisotropic Fibers and Their Composites", *Journal of The Acoustical Society of America*, 99 (2), 1996. p. 931.
- 12.Nagy, P. B. and Nayfeh, A. H. "On the Thermoelectric Magnetic Field of Spherical and Cylindrical Inclusions" *Journal of Applied Physics*, Vol. 87, No. 10, 7481-7490, 2000.
- 13.Faidi, I. W. and Nayfeh, A. H., "An Improved Model for Wave Propagation in Laminated Piezoelectric Composites" *Mechanics of Materials* 32, 235-241, 2000.
- 14.Nayfeh A. H., Faidi W. and Abdelrahman W. "An approximated model for wave propagation in piezoelectric materials. I. Laminated composites" *Journal of Applied Physics* Vol. 84, No.4, 2337-2345, 1999.
- 15.Nayfeh A. H., Faidi W. and Abdelrahman W. "An approximated model for wave propagation in piezoelectric materials. I. Fibrous composites" *Journal of Applied Physics* Vol. 84, No.4, 2347-2354, 1999.
- 16.Abdelrahman, A. H. and Nayfeh, A. H., "Stress Transfer and Stiffness Reduction in Orthogonally Cracked Laminates" *Mechanics of Materials*, 31, 303-316, 1999.
- 17.Nayfeh A. H. and Abdelrahman, W. G .,"An Improved Continuum Mixture Model for Wave Propagation in Fibrous Composites," accepted for publication in the *Journal of the Acoustical Society of America*, Feb. 1998.
- 18.Abdelrahman, A. H. and Nayfeh, A. H., "Micromechanical Modeling of Stress Distribution in Undulated and Textile Composites Under Axial Loading" I accepted for publication to *Mechanics of Materials*, Mars, 1998.

19. Nayfeh, A.H. and Kriss, G. R., "Nonlinear Constitutive model for Plain Weave Textile Composites", accepted and to appear in *Composite Engineering*, 1997.
20. Nagy, P. B., and Nayfeh, A. H., "Viscosity-Induced Attenuation of Longitudinal guided Waves in Fluid-Loaded Rods", *J. Acoust. Soc. Am.* 100 (3), 1996, p. 1501.
21. Taylor, T.W. and Nayfeh, A.H., "Damping Characteristics of Thick Rectangular Laminates", *J. Acous. Soc. Am.* 100 (3) 1996.
22. Hawwa, M.A. and Nayfeh, A.H., "Thermoelastic Waves in Laminated Composites with a Second Sound Effect" *J. Appl. Phys.* Vol. 80, No. 5, 1996, p. 2733. *Composites Engineering* Vol. 5, No. 12. 1995, p. 1499.
23. Nayfeh, A.H., and, Nagy, P.B., "General Study of Axisymmetric Waves in Layered Anisotropic Fibers and Their Composites", *Journal of The Acoustical Society of America*, 99 (2), 1996. p. 931.
24. Nagy, P.B., and Nayfeh, A.H., "Generalized Formula for the Surface Stiffness of Fluid Saturated Porous Media Containing Parallel Pore Channels", *J. Appl. Phys.*, February, 1995.
25. Taylor, T. W. and Nayfeh, A.H., "Damping Characteristics of Laminated Thick Plates", accepted and to appear in *J. Appl. Mech.*, 1997.
26. Taylor, T.W. and Nayfeh, A.H., "The Vibration Characteristics of Thick Rectangular Multilayered Plates", accepted and to appear in *Composite Engineering*, 1995.
27. Hawwa, M.A. and Nayfeh, A.H., "The General problem of Thermoelastic Waves in Anisotropic Periodically Laminated Composites" *Composites Engineering* Vol. 5, No. 12.1995, p. 1499.
28. Nayfeh, A.H. and Kim, Y. Y, "Wave Propagation in Anisotropic Media Due to an Internal transient Line Load", accepted and to appear in *Wave Motion*, 1995.
29. Nayfeh, A.H. and Chimenti, D. E., "Ultrasonic Plate Waves in 3-D Braided Composites", *J. Acous. Soc. Am.*, Vol. 97, No.4, 1995. p.2056.
30. Taylor, T.W. and Nayfeh, A.H., "Natural Frequencies of Thick Layered Composite Plates", *Composite Engineering*, Vol. 4, No. 10, pp. 1011-1021, 1994.
31. Taylor, T.W., Nayfeh, A.H., and Wade, J.E., "Dynamic Response of Thick Anisotropic Composite Plates", *Composite Engineering*, Vol.4, No. 5, pp. 475-486, 1994.

32. Nayfeh, A.H. and Chien, H.T., "The Influence of Piezoelectricity on Free and Reflected Waves From Fluid-loaded Anisotropic Plates," *Journal of Acoustical Society of America*, 91, (3), 1250-1261, 1992.
33. Nayfeh, A.H. and Chien, H.T., "Wave Propagation Interaction with Free and Fluid Loaded Piezoelectric Substrates," *Journal of Acoustical Society of America*, 91, (6), 3126-3135, 1992.
34. Nayfeh, A.H., "Elastic Wave Reflection from Liquid-Anisotropic Substrate Interfaces," *Wave Motion*, 14, 55- 67, 1991.
35. Taylor, T.W. and Nayfeh, A.H., "Dynamic Internal Response of Fluid-loaded Multilayered Anisotropic Media," *Journal of the Acoustical Society of America*, 91 (5), pp. 2519-2528, May 1992.
36. Nayfeh, A.H., "The General Problem of Elastic Wave Propagation in Multilayered Anisotropic Media", *Journal of the Acoustical Society of America*, 89,4, 1521- 1531, 1991.
37. Nayfeh, A.H. and Chimenti, D. E., "Elastic Wave Propagation in Fluid -Loaded Multiaxial Anisotropic Media", *Journal of the Acoustical Society of America*, 89, 2, 542- 554, 1991.
38. Chimenti, D., and Nayfeh, A., "Ultrasonic Reflection and Guided Waves in Fluid Coupled Composite Laminates," *Journal of Nondestructive Evaluation*, Vol. 9, No. 2/3, 51- 69, 1990.
39. Nayfeh, A., and Taylor, T., "Dynamic Distribution of Displacement and Stress Consideration in the Ultrasonic Immersion Nondestructive Evaluation of Multilayered Plates," *ASME Journal of Engineering Material and Technology*, Vol.112, No.3, pp. 260-265. July, 1990.
40. Chimenti, D., and Nayfeh, A., "Ultrasonic Reflection and Guided Wave Propagation in Biaxially Laminated Composite Plates," *Journal of the Acoustical Society of America*, 87 (4), p. 1409, April, 1990.
41. Chimenti, D., and Nayfeh, A., "Microstructural Rayleigh Wave Dispersion on a Fluid Coupled anisotropic Surface with vertical Lamination" In *Review of Progress in QNDE*, 9, p.157, 1990.
42. Chimenti, D., and Nayfeh, A., "Ultrasonic Reflection and Guided Wave Propagation in Biaxially Laminated Composite Plates," *Journal of the Acoustical Society of America*, 87 (4), April, 1990.
43. Nayfeh, A.H., "The Propagation of Horizontally Polarized Shear Waves in Multilayered Anisotropic Media," *Journal of the Acoustical Society of America*, 86 (5), Nov., 1989.

44. Nayfeh, A.H., and Chimenti, D.E., "Free Wave Propagation in Plates of General Anisotropic Media," *Journal of Applied Mechanics*, 56, Dec., 1989.
45. Rose, J.L., Nayfeh, A.H., and Pilarski, A., "Surface Waves for Material Characterization," *Journal of Applied Mechanics*, 55, 1989.
46. Chimenti, D., and Nayfeh, A., "Ultrasonic Leaky Waves in a Solid Plate Separating Fluid and Vacuum Media," *Journal of the Acoustical Society of America*, 85 (2), 1989.
47. Rokhlin, S.I., Chimenti, D., and Nayfeh, A., "On The Topology of The Complex Wave Spectrum in a Fluid-Coupled Elastic Layer," *Journal of the Acoustical Society of America*, 85, (3), p. 1074, 1989.
48. Nayfeh, A.H., and Taylor, T.W., "Surface Wave Characteristics of Fluid Loaded Multilayered Media," *Journal of Acoustical Society of America*, 84, (6), 1988.
49. Nayfeh, A.H., and Chimenti, D.E., "Ultrasonic Wave Reflection from Liquid-Coupled Orthotropic Plates with Application to Fibrous Composites," *Journal of Applied Mechanics*, 55, 1988.
50. Nayfeh, A.H., "Acoustic Wave Reflection from Water/Laminated Composite Interfaces," *Journal of Applied Physics*, 63 (5), 1328-1333, January, 1988.
51. Nayfeh, A.H. and Chimenti, D.E., "Propagation of Guided Waves in Fluid-Coupled Plates of Fiber-Reinforced Composite," *Journal of Acoustical Society of America*, 83 (5) 1988.
52. Chimenti, D.E. and Nayfeh, A.H., "Anomalous Ultrasonic Dispersion in Fluid-Coupled, Fibrous Composite Plates," *Appl. Physics letters*, 49 (9), 1986, pp. 492-493.
53. Garg, S. and Nayfeh, A.H., "Compressional Wave Propagation in Liquid and/or Gas Saturated Elastic Media," *J. Appl. Physics*, 60 (9), Nov. 1986, pp. 3045-3055.
54. Hefzy, M.S. and Nayfeh, A.H., "Shear Deformation Plate Continua of Large Double-Layered Space Structures," *Int. Jour. Solids and Structures*, 22 (12), 1986, pp. 1455-1469.
55. Chimenti, D.E. and Nayfeh, A.H., "Leaky Lamb Waves in Fibrous Composites Laminates," *Journal of Applied Physics*, 58 (12), 1985, pp. 4531-4538.
56. Nayfeh, A.H., Crane, R.L. and Hoppie, W., "The Reflection of Acoustic Waves from Water/Composite Interfaces," *Journal of Applied Physics* 55 (3) 1984, pp. 685-689.

57. Nayfeh, AH. and Chimenti, D., "Reflection of Finite Acoustic Beams From Loaded and Stiffened Halfspaces," *Journal of Acoustical Society of America*, 75 (5), pp. 1360-1368, May 1984.
58. Nayfeh, AH., Hartle, M., "Dynamic Characteristics of Large Repetitive Frame-Like Structures," *Journal of Applied Mechanics*, 51, pp. 510-518, September 1984.
59. Nayfeh, AH. and Nassar, E.A., "Horizontally Polarized Waves in Composites with Bonds," *Journal of Sound and Vibration*, 87 (3), 439-447, 1983.
60. Nassar, E.A. and Nayfeh, AH., "Longitudinal Elastic Wave Propagation in Laminated Composites with Bonds," *Mechanics of Materials I*, pp. 331-344, 1982.
61. Nayfeh, AH. and Hefzy, M.S., "Effective Constitutive Relations for Large Repetitive Frame-Like Structures," *International Journal of Solids and Structures*, 18 (11), pp. 975-987, 1982.
62. Nayfeh, AH. and Nassar, E., "The Influence of Bonding Agents on the Thermomechanically Induced Interfacial Stresses in Composite Materials," *Fiber Science and Technology*, 16, pp. 157-174, 1982.
63. Chimenti, D.E., Nayfeh, AH. and Butler, D.L., "Leaky Waves on a Layered Halfspace," *Journal of Applied Physics*, 53 (1), pp. 170-176, 1982.
64. Nayfeh, AH., Chimenti, D.E., Adler, L. and Crane, R.L., "Ultrasonic Leaky Waves in the Presence of a Thin Layer," *Journal of Applied Physics*, 52 (8), pp. 4985-4994, 1981.
65. Nayfeh, AH. and Nassar, E., "Mathematical Simulation of Singularities for Isoparametric Elements of Arbitrary Orders," *International Journal of Numerical Methods in Engineering*, 17 (3), pp 465-470, 1981.
66. Nayfeh, AH., "Continuum Modeling of Low Frequency Heat Conduction in Laminated Composites With Bonds," *Journal of Heat Transfer*, 102, pp 312-319, May, 1980.
67. Nayfeh, A. H., "Simulation of the Influence of Bonding Materials on Electromagnetic Wave Propagation in Laminated Composites," *Journal of Applied Physics*, 51 (6), pp 2987-2994, 1980. proceedings ARPA/AFML rev. of prog. in Quant. NDE LaJolla, California, Aug., 1980.
68. Nayfeh, AH. and Hefzy, M., "Continuum Modeling of the Mechanical and Thermal Behavior of Discrete Large Structures," *AIAA Journal*, Vol. 19, pp 766-773, June, 1981.

69. Nayfeh, A.H., "Stress Wave Propagation in Bilayered Media," *Journal of Acoust. Soc. Amer.*, 66 (1), pp 291-295, 1979.
70. Nayfeh, A.H., "Simulation of the Influence of Bonding Materials on Heat Conduction in Laminated Composites," ASME Paper No. 79-W A/HT -46, 1979.
71. Nayfeh, A.H. and Loh, J.I.J., "Continuum Modeling of Electromagnetic Waves in Composite Wave Guides," *J. Appl. Phys.*, 50 (2), pp 606-609, 1979.
72. Nayfeh, A.H. and Nassar, E.A., "Simulation of the Influence of Bonding Materials on the Dynamic Behavior of Laminated Wave Guides," *Journal of Applied Mechanics*, 45, pp 822-828, Dec., 1978.
73. Nayfeh, A.H. and Hefzy, M.S., "Continuum Modeling of Three Dimensional Truss Like Space Structures," *AIAA Journal*, 16, pp 779-787, Aug., 1978.
74. Nayfeh, A.H., "Dynamically Induced Interfacial Stresses in Fibrous Composites," *Journal of Applied Mechanics*, 45, pp 442-445, June 1978.
75. Nayfeh, A.H., "Transient Motions of Bi-Lattices," *Physica*, Vol. 88A, pp 551- 560, 1977.
76. Nayfeh, A.H. and Loh, J.I.J., "On Continuum Mixture Theories for Shear Wave Propagation in Trilaminated Wave Guides," *Journal of Sound and Vibration*, 55, pp 19-26, 1977.
77. Nayfeh, A.H., "Thermomechanically Induced Interfacial Stresses in Fibrous Composites," *Fiber Science and Technology*, 10, 1977.
78. Nayfeh, A.H., and Baker, S.D., "Thermomechanical Distortion of Composite Panels," *Fiber Science and Technology*, 10, 1977.
79. Nayfeh, A.H., "The Propagation of Thermoelastic Disturbances in Non Fourier Solids," *AIAA Journal*, 15 (7), pp 957-960, July, 1977.
80. Nayfeh, A.H., "A Continuum Mixture Theory of Heat Conduction in Laminated Composites," *Journal of Applied Mechanics*, 42 (2), pp 399-404, 1975.
81. Nayfeh, A.H., "The Influence of Porosity on the Dynamic Response of Homogeneous and Structural Composite Media," *Int. Jour. Solids and Structures*, Vol. 11, 1975, pp. 937-946.
82. Nayfeh, A.H., "Disturbance Wave Propagation on a Semi-Infinite One- Dimensional Lattice Containing a Mass Defect," *Physica*, 76, No.2, pp 415- 420, Sept. 1974.

83. Nayfeh, A.H., "Discrete Lattice Simulation of Transient Motions in Elastic and Viscoelastic Composites," *Int. Jour. Solids and Structures*, 10, 1974, pp. 231-242.
84. Garg, S.K., Nayfeh, A.H. and Good, A., "Compressional Waves in Fluid Saturated Elastic Porous Media," *Journal of Applied Physics*, Vol. 45, May 1974, pp. 1968-1974.
85. Nayfeh, A.H., "Time-Harmonic Waves Propagating Normal to the Layers of Multi-Layered Periodic Media," *Journal of Applied Mechanics*, Vol. 41, March 1974, pp. 92-96.
86. Nayfeh, A.H., "The Influence of Mass Defects on the Natural Frequencies of Finite One-Dimensional Lattices," *Physics*, 70, 1973, pp. 209-218.
87. Nayfeh, A.H. and Gurtman, G., "A Continuum Approach to the Propagation of Shear Waves in Laminated Wave Guides," *Journal of Applied Mechanics*, Vol. 41, March 1974, pp. 106-110.
88. Hegemier, G., Gurtman, G., Nayfeh, A.H., "A Continuum Mixture Theory of Wave Propagation in Laminated and Fiber Reinforced Composites," *International Journal of Solids and Structures*, Vol. 9, 1973, pp. 395-414.
89. Hegemier, G., and Nayfeh, A.H., "A Continuum Theory for Wave Propagation in Laminated Composites," *Journal of Applied Mechanics*, Vol. 40, June 1973, pp. 503-510.
90. Nayfeh, A.H., "The Response of a Semi-Infinite Lattice to an Externally Applied Force," *American Journal of Physics*, Vol. 41, March, 1973, pp. 430-432.
91. Nayfeh, A.H. and Rice, M., "On the Propagation of Disturbances in a Semi-Infinite One-Dimensional Lattice," *American Journal of Physics*, Vol. 40, March, 1972, pp. 469-470.
92. Nayfeh, A.H., "Asymptotic Behavior of the Eigenvalues of Some Bounded Inhomogeneous Elastic Media," *Journal of Applied Mechanics*, Vol. 39, pp. 595-597, June 1972.
93. Nayfeh, A.H. and Nemat-Nasser, A., "Thermoelastic Waves in Solids with Thermal Relaxation," *Acta Mechanica*, Vol. 12, 1971, pp. 53-64.
94. Nayfeh, A.H., and Nemat-Nasser, S., "Electro-Magneto-Thermo-Elastic Plane Waves in Solids With Thermal Relaxation," *Journal of Applied Mechanics*, Vol. 39, pp 108-113, March, 1972.

95. Nayfeh, A.H. and Nemat-Nasser, S., "Transient Thermo-Elastic Waves in Solids With Thermal Relaxation," Journal of Applied Mechanics and Physics (ZAMP), Vol. 23, 1972, pp. 50-68.
96. Nayfeh, A.H. and Nemat-Nasser, S., "Elastic Waves in Inhomogeneous Elastic Media," Journal of Applied Mechanics, Vol. 39, pp. 696-702, Sept. 1972.
- 97.97. Nayfeh, A.H. and Prager, W., "On Martin's Lower Bound for Response Time of Impulsively Loaded Rigid-Plastic Structures," ASCE 95, EM3, 1969, pp. 813-819.

Supervised and Graduated MS and PhD Students:

1. Waseem Faidi, Ph.D., 2002.
2. J. Salmon, Ph.D., 1999.
3. H. Hu, Ph.D., 1996.
4. N. Al-Huniti, Ph.D., 1995.
5. V. Doundakov, , MS, 1995.
6. x. Y. Qu, , MS, 1994.
7. Y. Qian, Ph.D, 1993.
8. Y.Y. KIM, Ph.D, 1993.
9. M. A. Lyberger, MS, 1993.
10. J. Dong, Ph.D, 1993.
11. K. Wallace, MS, 1992.
12. H.T. Chien, Ph.D, 1991.
13. D. C. Zigan, MS, 1990.
14. T. J. Sierocuk, 1990, MS.
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17. J. Salmon, 1989, MS.
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19. T. Taylor, 1989, Ph.D.
20. S. M. Ballman, 1988, MS.
21. G. R. Thill, 1988, MS.
22. Brown, 1988, MS.
23. T. Taylor, 1988, MS.

- 24.S. Croft, 1988, MS.
- 25.J.F. Nayfeh, 1985, M.S.
- 26.M.S. Hartle, 1982, M.S.
- 27.M.S. Hefzy, Ph.D., 1982.
- 28.E.A. Nassar, Ph.D.
- 29.J.S. Kelm, Ph.D. 1980.
- 30.E.A. Nassar, 1977, M.S.
- 31.M.S. Hefzy, 1977, M.S.